Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: Detailed Estimate for Improvements to main & cross roads in Reddy Layout Ravindranagara Airforce Compound, in Ward No.12, in Shettyhalli Sub Division.

Est .Cost Rs.49.97 Lakhs

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1: Earthwork in surface excavation in Hard soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, specification No. KBS 2.1(a) / 2.3.1 Page No. 5/ Item No. 2.2/ PWD SR 2013-14								
	For RCC Drain	Cum	2	82.00	1.00	1.20	196.80		
			2	25.00	1.00	1.20	60.00		
			1	44.00	1.00	1.20	52.80		
			1	26.00	1.00	1.20	31.20		
			1	15.00	1.00	1.20	18.00		
	For CC Road		1	90.00	5.50	0.30	148.50		
			1	24.00	5.00	0.30	36.00		
			1	41.00	5.00	0.30	61.50		
	For Road		1	245.00	5.20	0.30	382.20		
							987.00	177.12	**174817.00**
	Basic Rate	164.00							
	Area Weightage @ 8%	13.12							
		177.12							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.3 Page No.12/ Item No. 4.3/ PWD SR 2013-14								
	For RCC Drain	Cum	2	82.00	0.90	0.15	22.14		
			2	25.00	0.90	0.15	6.75		
			1	44.00	0.90	0.15	5.94		
			1	26.00	0.90	0.15	3.51		
			1	15.00	0.90	0.15	2.03		
	For CC Road		1	90.00	5.50	0.15	74.25		
			1	24.00	5.00	0.15	18.00		

			1	41.00	5.00	0.15	30.75		
							163.37	4290.84	**700973.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
3	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C. works laid in 15 cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. (Page No.19, Item No. 4.48.1, PWD SR 2013-14)								
	For CC Road		1	90.00	5.50	0.10	49.50		
			1	24.00	5.00	0.10	12.00		
			1	41.00	5.00	0.10	20.50		
							82.00	6464.88	**530120.00**
	Basic Rate	5986.00							
	Area Weightage @ 8%	478.88							
	Total	**6464.88**							
4	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with with 20mm and down size graded granite metal, coarse aggregate @ 0.69 cum and fine aggregates @ .460cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafairmed -2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings,pedastals,retaining walls, staircase, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.5 ,P.13/I.4.11/ PWD SR 2013-14								
	Bed	Cum	2	82.00	0.90	0.15	22.14		
	Wall		2x2	82.00	0.15	0.90	44.28		
			2	25.00	0.90	0.15	6.75		
			2x2	25.00	0.15	0.90	13.50		
			1	44.00	0.90	0.15	5.94		
			1x2	44.00	0.15	0.90	11.88		
			1	26.00	0.90	0.15	3.51		
			1x2	26.00	0.15	0.90	7.02		
			1	15.00	0.90	0.15	2.03		
			1x2	15.00	0.15	0.90	4.05		
	Covering		1	355.00	0.90	0.10	31.95		
							153.05	5639.76	**863137.00**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							

	Total	**5639.76**							
5	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3, TMT bars Fe 500. Page No. 17/ item No. 4.46.2/ PWD SR 2013-14								
		Qtls		153.05	x	60kgs	9182.70		
							91.83	7450.92	**684196.00**
	Basic Rate	6899.00							
	Area Weightage @ 8%	551.92							
	Total	**7450.92**							
6	KSRB 4-6.9: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walss at any thickness,including attached pilasters,buttresses, plinth and string courses cost of all materials, labour complete as per specification. Specification No. KSRB 4.6.9. exceeding 1m in depth. Page No. 15/ Item No. 4.31/ PWD SR 2013-14								
		Sqm	2x4	82.00		0.90	590.40		
			2x4	25.00		0.90	180.00		
			1x4	44.00		0.90	158.40		
			1x4	26.00		0.90	93.60		
			1x4	15.00		0.90	54.00		
	Covering		1	355.00		0.90	319.50		
							1395.90	266.06	**371393.00**
	Basic Rate	251.00							
	Area Weightage @ 6%	15.06							
		266.06							
8	KSRRB M400-6.1. Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per Specifications. A. Plant Mix Method. close graded granular sub-base Material as per 400-1 For Grading – I Material Page No. 167/ Item No. 20.4.1/ PWD SR 2013-14								
	For Road	Cum	1	245.00	5.20	0.15	191.10		
							191.10	1,060.56	**202673.00**
	Basic Rate	982.00							
	Area Weightage @ 8%	78.56							
		1,060.56							

9	KSRRB M400-17: Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam Specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per Specifications. MORTH Specification No. 406 Page No. 170/ Item No. 20.18/ PWD SR 2013-14								
	For Road	Cum	1	245.00	5.20	0.15	191.10		
							191.10	1,121.04	**214231.00**
	Basic Rate	1,038.00							
	Area Weightage @ 8%	83.04							
		1,121.04							
10	KSRRB 500-6: Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH specification No. 502 Page No. 175/ Item No. 21.6/ PWD SR 2013-14								
	For Road	Sqm	1	245.00	5.20		1274.00		
							1274.00	44.28	**56413.00**
	Basic Rate	41.00							
	Area Weightage @ 8%	3.28							
		44.28							
11	KSRRB M500-19: Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, Transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH specification No. 509 30-45mm compacted thickness (Grading II) with 6% Bitumen 60/70 grade using 40-60 HMP using mechanical paver Page No. 179/ Item No. 21.22.6/ PWD SR 2013-14								
	For Road	Cum	1	245.00	5.20	0.04	50.96		
							50.96	11,619.72	**592141.00**
	Basic Rate	10,759.00							
	Area Weightage @ 8%	860.72							
		11,619.72							
12	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 10 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 68.00 (P.133 I.18.57/1) 2013-14								
	Qty Vide Item No=1	Cum					**987.00**		
	Qty Limited to						**982.00**	72.71	**71397.00**
	(For 2 km = 3 x 1.28 x 2.0)	5.12							

	Loading and Unloading Charges	62.20						
		67.32						
	Area Weightage 8%	5.39	KRIDL charges		10+1+1% =	12%	535378	
	Total	72.71	Mb				130.00	
13	Miscellaneous and other unforseen charges						24.00	
						Rs	4,97,000/-	
						Total	4999000	00

(Rupees Fortynine Lakhs Ninetynine Seven Thousand Only)

4,9,97,000

CERTIFICATE

1 The work sport has been inspected and the work found to be necessary
2 This estimate is prepared as per the PWD S.R of 2013-14
3 The provisions made in estimate are adequate and essential
4 This area comes under BBMP limits

Rawi. N.K.

Asst. Engineer
Ward No-12

Asst.Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

A/S

ಸಂ. JC(DH) AS 794/13-14 ದಿನಾಂಕ : 18/02/14
ರೂ. 49.97 lakh (Rupee Forty-Nine lakh Ninty-Seven thousand only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
Page No. 149
SL. No. 794
ಜಂಟಿ ಆಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ಸಂ. 32/13-14/Pg 57 ದಿನಾಂಕ : 20/02/2014
ರೂ. 4997000/- (ರೂ. ನಾಲ್ಕು ಮಿಲಿಯನ್, ಒಂಬತ್ತು ಲಕ್ಷ ತೊಂಭತ್ತೇಳು ಸಾವಿರ ರೂಪಾಯಿಗಳ)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
TA.
ಮುಖ್ಯ
ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು